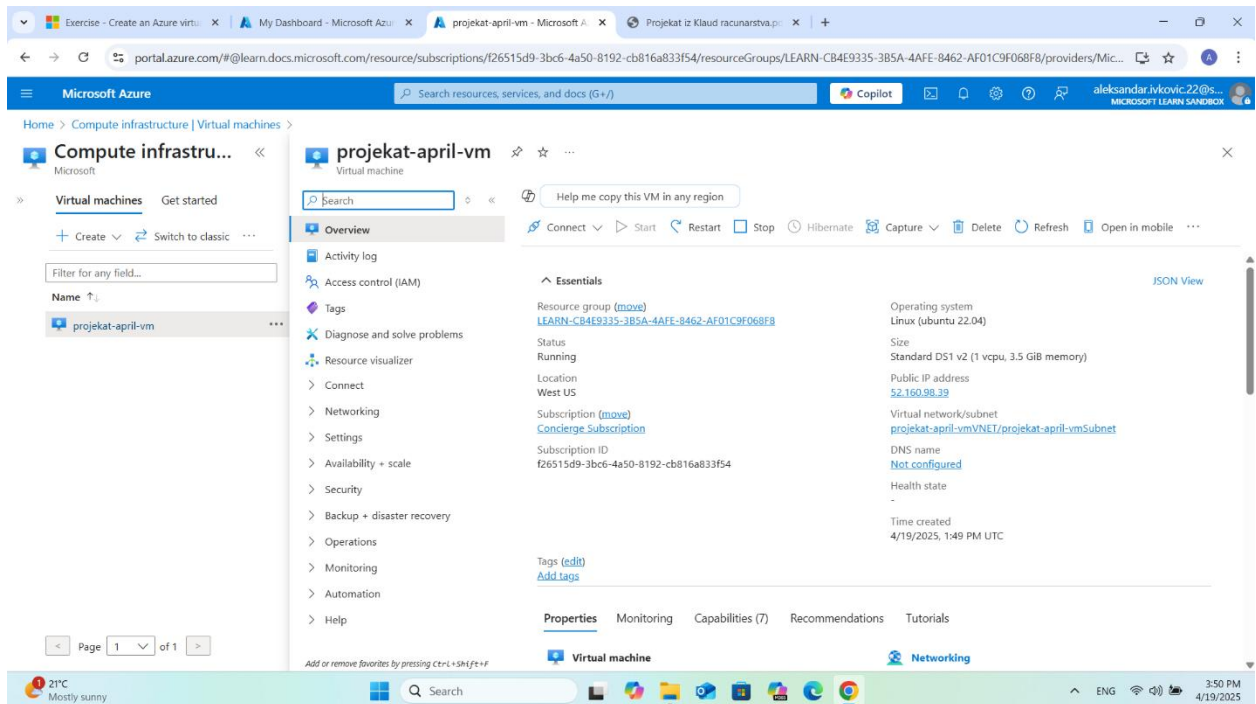


# KLAUD RACUNARSTVO

## PROJEKAT

1. Креирати Linux (Ubuntu 22.04) виртуелну машину у оквиру ресурсне групе чији назив започинје са learn (која је већ креирана). Виртуелну машину ОБАВЕЗНО назвати projekat-mesec-vm. За месек ставити назив месеца у коме излазите на одбрану пројекта, односно полажете завршни испит



Exercise - Create an Azure virt... | My Dashboard - Microsoft Azu... | projekat-april-vm - Microsoft A... | Projekat iz Klad racunarstva.p...

portal.azure.com/#@learn.docs.microsoft.com/resource/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/LEARN-CB4E9335-3B5A-4AFE-8462-AF01C9F068F8/providers/Mic...

Microsoft Azure Search resources, services, and docs (G+)

Home > Compute infrastructure | Virtual machines > projekat-april-vm

Compute infrastru... Virtual machine

Virtual machines Get started

+ Create v Switch to classic ...

Filter for any field...

Name ↑

projekat-april-vm

projekat-april-vm | Activity log

Activity Overview

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

Security

Backup + disaster recovery

Operations

Monitoring

Automation

Help

Page 1 of 1

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Subscription: Concierge Subscription Event severity: All Timespan: Last 6 hours

Resource group: LEARN-CB4E9335-3B5A-4AFE-8462-AF01C9F068F8 Resource: PROJEKAT-APRIL-VM

1 item.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Create or Update Virtual Ma	Succeeded	a minute ago	Sat Apr 19 2...	Concierge Subscription	aleksandar.jvkovic.22@sin...

21°C Mostly sunny

3:51 PM 4/19/2025

Exercise - Create an Azure virt... | My Dashboard - Microsoft Azu... | projekat-april-vmPublicIP - Mic... | Projekat iz Klad racunarstva.p...

portal.azure.com/#@learn.docs.microsoft.com/resource/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8/providers/Microsof...

Microsoft Azure Search resources, services, and docs (G+)

Home > Compute infrastructure | Virtual machines > projekat-april-vm > projekat-april-vmPublicIP

projekat-april-vmPublicIP | Activity log

Public IP address

Activity Overview

Access control (IAM)

Tags

Resource visualizer

Settings

Configuration

Properties

Locks

Monitoring

Automation

Help

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Subscription: Concierge Subscription Event severity: All Timespan: Last 6 hours Resource group: learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8

Resource: projekat-april-vmPublicIP

1 item.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Create or Update Public Ip Address	Accepted	2 minutes a...	Sat Apr 19 2...	Concierge Subscription	aleksandar.jvkovic.22@sin...

21°C Mostly sunny

3:51 PM 4/19/2025

## 2. Инсталирати Nginx web server користећи Custom Script Extension

The screenshot shows a Microsoft Azure Cloud Shell terminal window. The terminal displays a PowerShell command to set an Azure VM extension and its corresponding JSON output. The command is: `az vm extension set --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --vm-name projekat-april-vm --name customScript --publisher Microsoft.Azure.Extensions --version 2.1 --settings '{"fileUri":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./configure-nginx.sh"}'`. The output is a detailed JSON object containing metadata and settings for the extension.

```
"resourceGroup": "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8",
"zones": ""
}
aleksandar [ ~ ]$ az vm extension set --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --vm-name projekat-april-vm --name customScript --publisher Microsoft.Azure.Extensions --
version 2.1 --settings '{"fileUri":["https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"]}' --protected-settings '{"commandToExecute": "./co
nfigure-nginx.sh"}'
{
  "autoUpgradeMinorVersion": true,
  "enableAutomaticUpgrade": null,
  "forceUpdateTag": null,
  "id": "/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8/providers/Microsoft.Compute/virtualMachines/projekat-april-vm/extensio
ns/customScript",
  "instanceView": null,
  "location": "wastus",
  "name": "customScript",
  "protectedSettings": null,
  "protectedSettingsFromKeyVault": null,
  "provisionAfterExtensions": null,
  "provisioningState": "Succeeded",
  "publisher": "Microsoft.Azure.Extensions",
  "resourceGroup": "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8",
  "settings": {
    "fileUri": [
      "https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"
    ]
  },
  "suppressFailures": null,
  "tags": null,
  "type": "Microsoft.Compute/virtualMachines/extensions",
  "typeHandlerVersion": "2.1",
  "typePropertiesType": "customScript"
}
aleksandar [ ~ ]$
```

3. Pomоћу PowerShell или Bash команди приказати IP адресу подигнутог веб сервера из претходног задатка. Преко Web Browsera приступити подигнутом веб серверу, наводећи у address baru IP адресу сервера.

The screenshot shows a Microsoft Azure Cloud Shell terminal window with a dark background. The terminal displays a JSON configuration for an extension, followed by a command to list IP addresses and a curl command to test connectivity. The output shows the IP address 52.160.98.39. Below the terminal, a web browser window shows a "This site can't be reached" error for the address 52.160.98.39, with a "Reload" button.

```
{
  "autoUpgradeMinorVersion": true,
  "enableAutomaticUpgrade": null,
  "forceUpdateTag": null,
  "id": "/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8/providers/Microsoft.Compute/virtualMachines/projektat-april-vm/extensions/customScript",
  "instanceView": null,
  "location": "westus",
  "name": "customScript",
  "protectedSettings": null,
  "protectedSettingsFromKeyVault": null,
  "provisionAfterExtensions": null,
  "provisioningState": "Succeeded",
  "publisher": "Microsoft.Azure.Extensions",
  "resourceGroup": "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8",
  "settings": {
    "fileUri": [
      "https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh"
    ]
  },
  "suppressFailures": null,
  "tags": null,
  "type": "Microsoft.Compute/virtualMachines/extensions",
  "typeHandlerVersion": "2.1",
  "typePropertiesType": "customScript"
}
aleksandar [ ~ ]$ IPADDRESS=$(az vm list-ip-addresses --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --name projektat-april-vm --query "[].virtualMachine.network.publicIpAddresses[*].ipAddress" --output tsv)
aleksandar [ ~ ]$ curl --connect-timeout 5 http://$IPADDRESS
curl: (28) Connection timed out after 5003 milliseconds
aleksandar [ ~ ]$ echo $IPADDRESS
52.160.98.39
aleksandar [ ~ ]$
```

This site can't be reached  
52.160.98.39 took too long to respond.

Try:

- Checking the connection
- Checking the proxy and the firewall
- Running Windows Network Diagnostics

ERR\_TIMED\_OUT

Reload Details

4. Приказати назив ваше network nsg листе и тренутна мрежна правила у оквиру ње у формату (Name, Priority, Protocol, Port, Access).

```
Exercise - Configure network a: x My Dashboard - Microsoft Az: x projekat-april-vm - Microsoft A: x Projekat iz Klau... portal.azure.com/#cloudshell/ Microsoft Azure Search resources, services, and docs (G+) Copilot aleksandar.jkovic.22@b... MICROSOFT LEARN SANDBOX Switch to PowerShell Restart Manage files New session Editor Web preview Settings Help "location": "westus", "name": "customScript", "protectedSettings": null, "protectedSettingsFromKeyVault": null, "provisionAfterExtensions": null, "provisioningState": "Succeeded", "publisher": "Microsoft.Azure.Extensions", "resourceGroup": "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8", "settings": { "fileUri": [ "https://raw.githubusercontent.com/MicrosoftDocs/mslearn-welcome-to-azure/master/configure-nginx.sh" ] }, "suppressFailures": null, "tags": null, "type": "Microsoft.Compute/virtualMachines/extensions", "typeHandlerVersion": "2.1", "typePropertiesType": "customScript" } aleksandar [ ~ ]$ az vm list-ip-addresses --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --name projekat-april-vm --query "[].virtualMachine.network.publicIpAddresses[*].ipAddress" --output tsv aleksandar [ ~ ]$ curl --connect-timeout 5 http://$IPADDRESS curl: (28) Connection timed out after 5003 milliseconds aleksandar [ ~ ]$ echo $IPADDRESS 52.160.98.39 aleksandar [ ~ ]$ az network nsg list --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --query '[].name' --output tsv projekat-april-vmNSG aleksandar [ ~ ]$ az network nsg rule list --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --nsg-name projekat-april-vmNSG --query '[].{Name:name, Priority:priority, Protocol:protocol, Port:destinationPortRange, Access:access}' --output table Name Priority Protocol Port Access ----- 1000 22 Tcp Allow default-allow-ssh aleksandar [ ~ ]$
```

Exercise - Configure network a: x My Dashboard - Microsoft Az: x projekat-april-vmNSG - Micros: x Projekat iz Klau... portal.azure.com/#@learn.docs.microsoft.com/resource/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8/providers/Microsof... Microsoft Azure Search resources, services, and docs (G+) Copilot aleksandar.jkovic.22@b... MICROSOFT LEARN SANDBOX

Home > projekat-april-vm > learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8 >

### projekat-april-vmNSG

Network security group

Search

Move Delete Refresh Give feedback

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Settings
- Monitoring
- Automation
- Help

Essentials

Resource group (move): [learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8](#) Custom security rules: 1 inbound, 0 outbound

Location: West US Associated with: 0 subnets, 1 network interfaces

Subscription (move): [Concierge Subscription](#)

Subscription ID: f26515d9-3bc6-4a50-8192-cb816a833f54

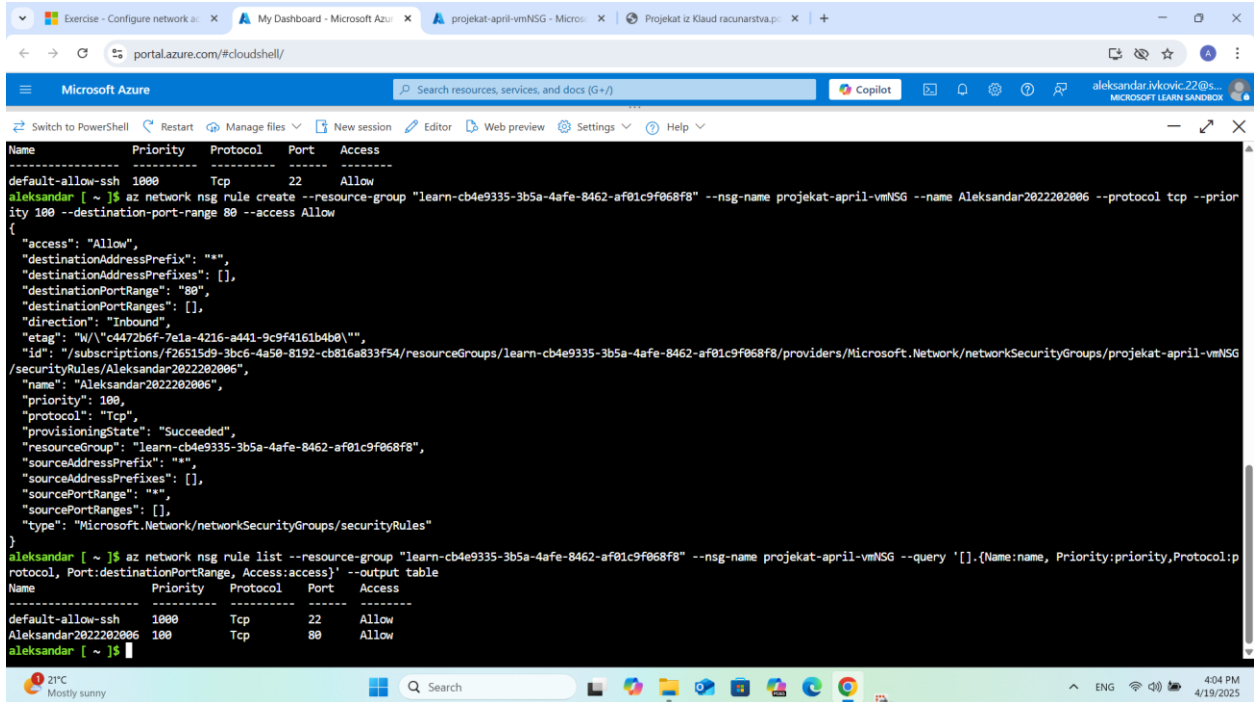
Tags (edit): Add tags

Filter by name

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound Security Rules						
1000	default-allow-ssh	22	Tcp	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny
Outbound Security Rules						
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Add or remove favorites by pressing Ctrl+Shift+F

5. Креирати ново мрежно правило под називом ИмеБројиндекса у оквиру ваше network nsg листе које треба да омогући извршавање HTTP захтева са приоритетом 100 са одговарајућим протоколом и портом. Након тога приказати тренутна мрежна правила у оквиру ваше network nsg листе у формату (Name, Priority, Protocol, Port, Access).



The screenshot shows a Microsoft Azure Cloud Shell terminal window. The terminal displays the command to create a new network security rule and the subsequent command to list all rules. The output shows the rule 'Aleksandar2022202006' has been successfully created with priority 100, protocol TCP, and port 80. The final output is a table listing the rules.

```
aleksandar [ ~ ]$ az network nsg rule create --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --nsg-name projekat-april-vmNSG --name Aleksandar2022202006 --protocol tcp --priority 100 --destination-port-range 80 --access Allow
{
  "access": "Allow",
  "destinationAddressPrefix": "*",
  "destinationAddressPrefixes": [],
  "destinationPortRange": "80",
  "destinationPortRanges": [],
  "direction": "Inbound",
  "etag": "W/\"c4472b6f-7e1a-4216-a441-9c9f4161b4b0\"",
  "id": "/subscriptions/f26515d9-3bc6-4a50-8192-cb816a833f54/resourceGroups/learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8/providers/Microsoft.Network/networkSecurityGroups/projekat-april-vmNSG/securityRules/Aleksandar2022202006",
  "name": "Aleksandar2022202006",
  "priority": 100,
  "protocol": "Tcp",
  "provisioningState": "Succeeded",
  "resourceGroup": "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8",
  "sourceAddressPrefix": "*",
  "sourceAddressPrefixes": [],
  "sourcePortRange": "*",
  "sourcePortRanges": [],
  "type": "Microsoft.Network/networkSecurityGroups/securityRules"
}
aleksandar [ ~ ]$ az network nsg rule list --resource-group "learn-cb4e9335-3b5a-4afe-8462-af01c9f068f8" --nsg-name projekat-april-vmNSG --query '[].(Name:name, Priority:priority, Protocol:protocol, Port:destinationPortRange, Access:access)' --output table
-----
Name                Priority  Protocol  Port  Access
-----
default-allow-ssh   1000     Tcp       22    Allow
Aleksandar2022202006 100      Tcp       80    Allow
aleksandar [ ~ ]$
```

Name	Priority	Protocol	Port	Access
default-allow-ssh	1000	Tcp	22	Allow
Aleksandar2022202006	100	Tcp	80	Allow

6. Преко Web Browsera приступити подигнутом веб серверу, наводећи у address baru IP адресу сервера.

